

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G01N27/447 B01L3/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N B01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A  Y   Y	<p>US 6 284 117 B1 (LANDIS GEOFFREY C ET AL) 4 September 2001 (2001-09-04) column 2, line 41 - line 67</p> <p>column 3, line 64 - column 4, line 4 column 4, line 23 - line 27; figure 3 column 5, line 36 - line 50 claim 17</p> <p>--- US 5 632 957 A (TU EUGENE ET AL) 27 May 1997 (1997-05-27) abstract</p> <p>--- -/-</p>	<p>1-4, 9, 16</p> <p>5-8, 11-15, 17-20 10</p> <p>10</p>

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

29 April 2004

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12/05/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Stussi, E

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 705 813 A (HANCOCK WILLIAM S ET AL) 6 January 1998 (1998-01-06) column 2, line 21 - line 29 column 9, line 11 - line 39 ----	1-20
A	EP 0 816 837 A (CALIPER TECHN CORP) 7 January 1998 (1998-01-07) the whole document ----	1-20
A	US 5 779 868 A (KNAPP MICHAEL R ET AL) 14 July 1998 (1998-07-14) the whole document -----	1-20

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6284117	B1	04-09-2001	AU 2921001 A	03-07-2001
			EP 1257802 A1	20-11-2002
			WO 0146672 A1	28-06-2001
US 5632957	A	27-05-1997	US 6017696 A	25-01-2000
			US 5605662 A	25-02-1997
			AT 220459 T	15-07-2002
			AU 702773 B2	04-03-1999
			AU 3507095 A	27-03-1996
			BR 9508908 A	28-10-1997
			CA 2199515 A1	14-03-1996
			CN 1164894 A ,B	12-11-1997
			DE 69527375 D1	14-08-2002
			DE 69527375 T2	13-02-2003
			DK 871888 T3	14-10-2002
			EP 0871888 A1	21-10-1998
			ES 2179114 T3	16-01-2003
			FI 970957 A	07-05-1997
			JP 10505497 T	02-06-1998
			US 6099803 A	08-08-2000
			US 2002085954 A1	04-07-2002
			WO 9607917 A1	14-03-1996
			US 6245508 B1	12-06-2001
			US 2002155586 A1	24-10-2002
			US 2003190632 A1	09-10-2003
			US 6309602 B1	30-10-2001
			US 6375899 B1	23-04-2002
			US 6319472 B1	20-11-2001
			US 6638482 B1	28-10-2003
			US 6068818 A	30-05-2000
			US 6331274 B1	18-12-2001
			US 6225059 B1	01-05-2001
			US 6254827 B1	03-07-2001
			US 6315953 B1	13-11-2001
			US 2003073122 A1	17-04-2003
			US 2001014449 A1	16-08-2001
			US 6187642 B1	13-02-2001
			US 6306348 B1	23-10-2001
			US 6569382 B1	27-05-2003
			US 6518022 B1	11-02-2003
			US 6403367 B1	11-06-2002
			US 6423271 B1	23-07-2002
			US 6540961 B1	01-04-2003
			US 5849486 A	15-12-1998
			US 2004077074 A1	22-04-2004
			US 6287517 B1	11-09-2001
			US 6652808 B1	25-11-2003
			US 6309601 B1	30-10-2001
			US 2001026778 A1	04-10-2001
			US 2001026935 A1	04-10-2001
			US 6048690 A	11-04-2000
			US 6582660 B1	24-06-2003
			US 2001052976 A1	20-12-2001
			US 2002028503 A1	07-03-2002
US 5705813	A	06-01-1998	DE 19645070 A1	07-05-1997
			GB 2306644 A ,B	07-05-1997

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0816837	A	07-01-1998	US 5800690 A	01-09-1998
			AU 718697 B2	20-04-2000
			AU 3672497 A	21-01-1998
			BR 9710193 A	11-01-2000
			CA 2258699 A1	08-01-1998
			EP 1241472 A2	18-09-2002
			EP 0816837 A1	07-01-1998
			EP 0909386 A1	21-04-1999
			JP 3496156 B2	09-02-2004
			JP 2000513813 T	17-10-2000
			KR 2000022341 A	25-04-2000
			NZ 333438 A	25-08-2000
			WO 9800707 A1	08-01-1998
			US 6413401 B1	02-07-2002
			US 5965001 A	12-10-1999
			ZA 9705948 A	19-03-1998
US 5779868	A	14-07-1998	AU 726987 B2	30-11-2000
			AU 3501297 A	21-01-1998
			BR 9710052 A	11-01-2000
			CA 2258481 A1	08-01-1998
			CA 2443272 A1	08-01-1998
			CN 1228841 A	15-09-1999
			EP 0815940 A2	07-01-1998
			EP 0909385 A1	21-04-1999
			JP 3361530 B2	07-01-2003
			JP 2000514184 T	24-10-2000
			KR 2000022177 A	25-04-2000
			NZ 333345 A	29-09-2000
			NZ 504697 A	30-11-2001
			NZ 504698 A	30-11-2001
			TW 394843 B	21-06-2000
			US 5972187 A	26-10-1999
			US 6080295 A	27-06-2000
			WO 9800705 A1	08-01-1998
			US 6042709 A	28-03-2000
			US 6547942 B1	15-04-2003
			US 2003085126 A1	08-05-2003
			US 6287520 B1	11-09-2001
			US 5880071 A	09-03-1999
			US 2002017464 A1	14-02-2002
			US 5958203 A	28-09-1999
			ZA 9705758 A	23-04-1998